Chapter 1

Lesson 1: Let's Explore Living Things

Look Around You

If you look around you, you will find two kinds of things:

Living Things	Non-living Things
Humans	Rocks
Animals	Air
Plants	Water

Characteristics of Living Things

Living things are different from non-living things because they can:

- Grow Feed (Get food) Breathe

What are Living Things?

Living things are organisms that can feed, grow, and breathe.

Examples:

- Humans - Animals - Plants

Habitats of Living Things

- Living things live in many places around us, such as the school yard.
- Not all living things live in the same place.
- Each living thing looks for a place that meets its needs.
- This place is called a **habitat**.

What is a Habitat?

A habitat is the place where a living thing lives.

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Why do living things have different habitats?

Because each living thing lives in a habitat that provides its needs, such as:

- Water Food Shelter

Activity

Exploring the Habitats of Living Things

To discover where living things live, follow these steps:

Step 1: Predict

Guess where you may find living things.

Examples:

- Flower beds
- Around the roots of big trees
- Cracks between rocks

Step 2: Search

Go and carefully look for living things in the places you predicted.

Step 3: Record

When you find a living thing, write down:

- The name of the living thing.
- The place (habitat) where you found it.

Examples of Living Things and Their Habitats

Living Thing	Habitat
Bird	On trees

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Spider	Flower beds - Cracks between rocks
Lizard	In the shade of rocks - Under rocks - On warm rocks
Scorpion	Cracks between rocks - Under rocks
Dung Beetle	Desert

Safety Rule

⚠ Do not touch any living thing with your hands unless your teacher or a science guide helps you.

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Chapter 1

Lesson 2: How Do We Observe?

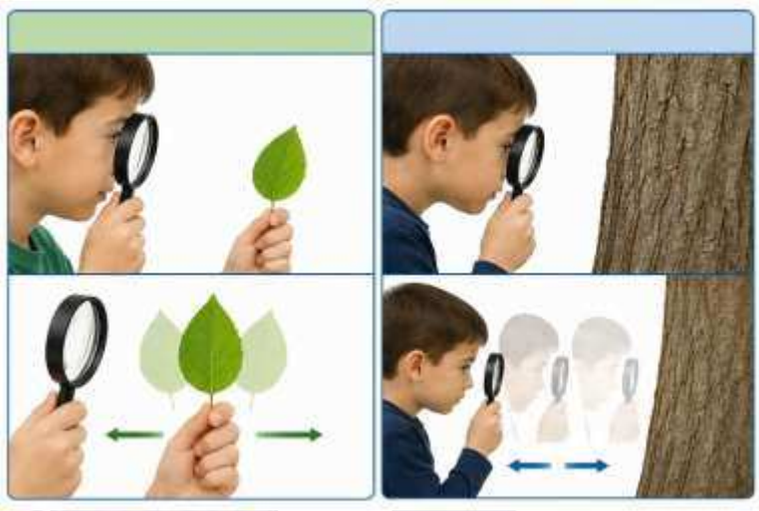
Observation Rules

When we look closely at living things, we observe:

- **Shape - Color - Size**

To see small details clearly, we use:

1. **A magnifying glass**
2. **An observation record card**



First: Using a Magnifying Glass

What is a Magnifying Glass?

A **magnifying glass** is a tool that helps us see the small details of living things, such as insects and plants.

How to Use a Magnifying Glass

If the object can be moved	If the object cannot be moved
Example: A small leaf	**Example:** A tree trunk
Hold the magnifying glass close to your eye.	Hold the magnifying glass close to your eye.
Move the **object** forward and backward until the image becomes clear.	Move **your face and the magnifying glass** forward and backward until the image becomes clear.

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Safety Rules

⚠ **Never look directly at the Sun through a magnifying glass.**

Why? Because it can hurt your eyes.

⚠ **Wear gloves while observing living things.**

Why? To protect your hands from contamination.

Second: Making an Observation Record Card

An observation record card helps us organize our observations.

Write:

- **Title – Date – Name – Class**

Record Your Observation

1. Draw a Simple Sketch

- Use thin, clear lines.
- Do not shade the drawing.

2. Write Descriptive Sentences

Describe:

- **Size – Color – Shape - Place (Habitat)**

3. Write What You Learned

Write:

- Something new you learned.
- Something that made you curious.

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Activity

Observe Living Things Closely

Use a magnifying glass to observe:

- A **Dung Beetle**
- A **Plant Leaf**

Then prepare an observation record card for each one.

What Do You Observe?

Dung Beetle

Look carefully at:

- Small hairs
- Leg joints

Plant Leaf

Look carefully at:

- The veins on the leaf

Observation Record Card

Dung Beetle

Item	Observation
Length	About **2 cm**
Color	Blackish
Shape	Oval with long back legs
Habitat	On the ground near the Nile River

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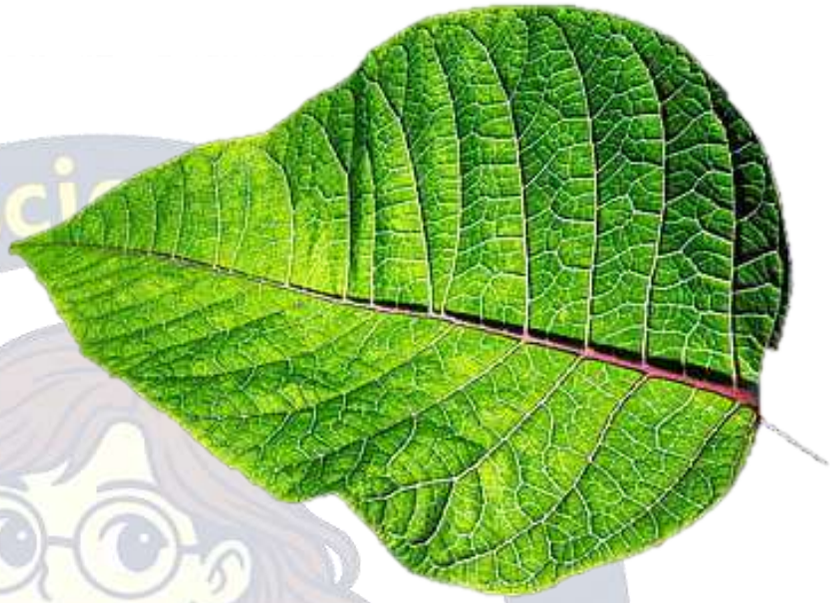
Observation

The dung beetle rolled a perfectly round ball of dung backward while standing on its head.

Plant Leaf

Item	Observation
Length	About **1 cm**
Color	Dark green
Shape	Oval
Habitat	On tree branches



Observation

The leaf has **one large vein in the middle** with **many smaller veins branching from it**.

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موقع الدكتور محمد رزق
Dr.MoRizK